

Integrex 60 / Nit 60 - UNS S21800

MATERIAL DESCRIPTION

Integrex 60 / Nit 60 is a high strength austenitic stainless steel with good corrosion resistance.

The addition of Nitrogen enhances the material strength,

The Nitrogen is homogenous throughout the material. Integrex 60 / Nit 60 type materials approximately twice the yield strength of 304L and 316L.

Integrex 60 / Nit 60 has superior resistance to galling, a form of wear caused by adhesion between sliding surfaces, and metal-to-metal wear

APPLICABLE SPECIFICATIONS

AMS5848

ASTM A193/A193M, ASME SA193/SA193M Class 1C

ASTM A194/A194M, ASME SA194/SA 194M

ASTM A276/A276M,

ASTM A479/A479M, ASME SA479/SA479M

ANSI/NACE MR0175/ISO 15156

ANSI/NACE MR0103

API 6A PSL 3 & PED 2014/68/EU

HEAT TREATMENT

Intoco bar stock is in the Solution Annealed condition

CHEMICAL ANALYSIS RANGE

ELEMENT	WEIGHT %	ELEMENT	WEIGHT %
C	0.10 Max.	Cr	16.0 – 18.0
Mn	7.00 – 9.00	S	0.030 Max
Si	3.5 – 4.5	P	0.060 Max
Ni	8.0 – 9.0	N	0.08 – 0.18

TYPICAL MECHANICAL PROPERTIES (Min unless stated)

0.2% Yield ksi (MPa)	UTS ksi (MPa)	Ductility		Full size (10mm x 10mm) Charpy V Notch @ -76°C	Hardness HBW (HRC)
		%El 4D	%RA	Ft-lbs (J)	
50 (345)	95 (655)	35	55	≥31 (43)	241 (23) Max

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